



Rise of the Robots

- ❑ A look at the growth of robotics globally
- ❑ Minnesota's emerging robotics cluster

Global publication based in MN

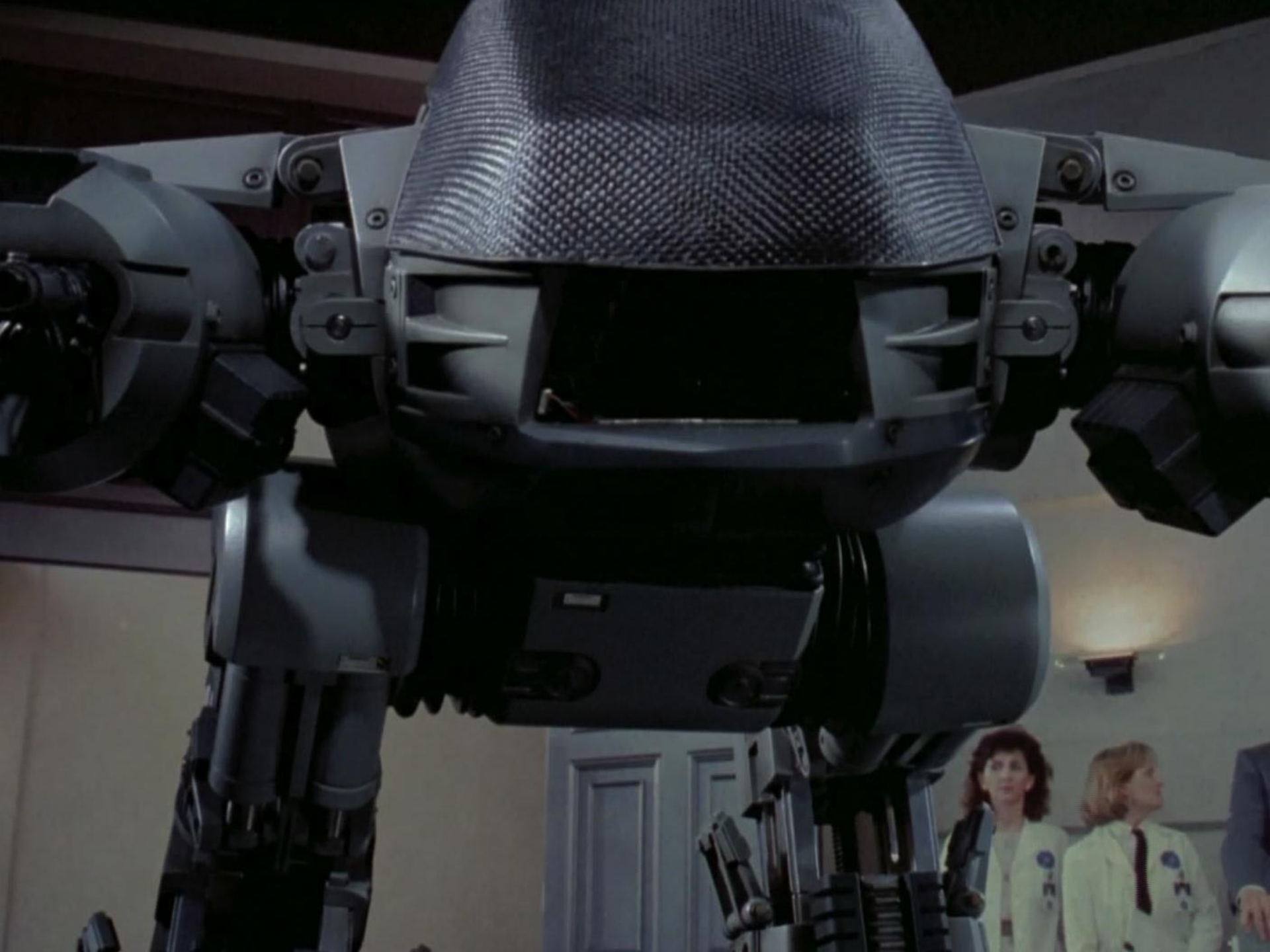
Mike Davin

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- Communications Chair, Association for Unmanned Vehicle Systems International
- Advisory Committee, Robotics Alley Conference & Expo

**The Business
of Robotics**



robotics alley

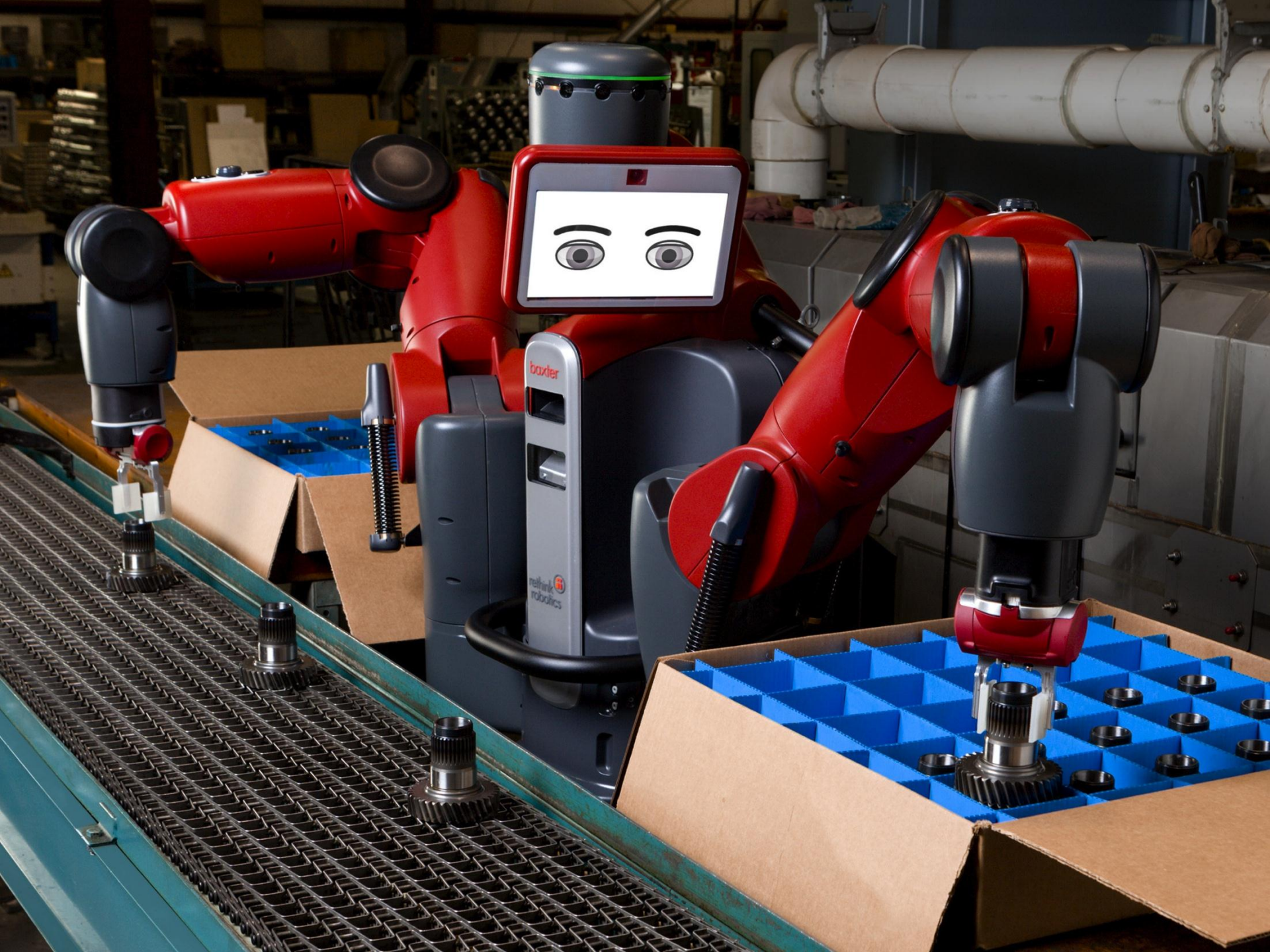
















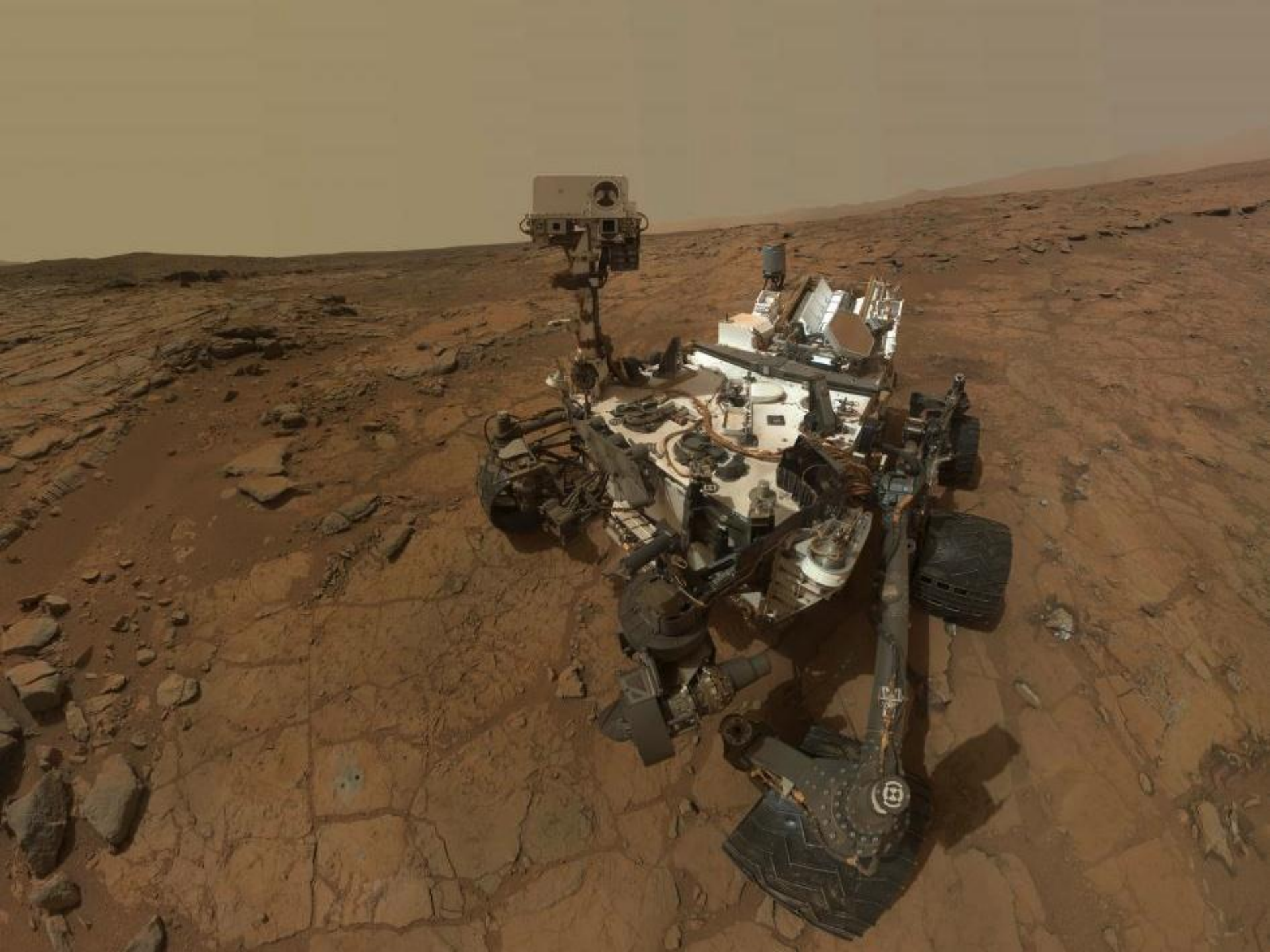




Google

self-driving car

California
6UEJ089





Global growth

- **Between 2014 and 2016, worldwide robot sales will increase by about 6% on average per year.**
— International Federation of Robotics
- **In 2012, 2 million domestic robots were sold (15% more than 2011) at a value of \$697 million.**
— International Federation of Robotics
- **In the first 3 years of UAV integration, more than 70,000 jobs will be created in the U.S. with an economic impact of \$13.6 billion.**
— Association for Unmanned Vehicle Systems International Report
- **3-D printing to grow at CAGR of 23 percent from now until 2020, when it will be worth \$8.41 billion.**
— MarketsandMarkets Research Report

Other recent headlines

- FAA releases roadmap for UAS, finalizes test site privacy policy
- Robot arm to ring NASDAQ bell for launch of Robo-Stox index
- Georgia Tech adds institute for robotics, intelligent machines
- National Robotics Initiative awards \$38M in new funding
- Novel robotic solution makes solar power more efficient
- Study: North America to ship 10M robotic vehicles in 2032

Robotics Revolution Areas

- Medicine
- Agriculture
- Security & Defense
- Industrial Applications
- Personal Service

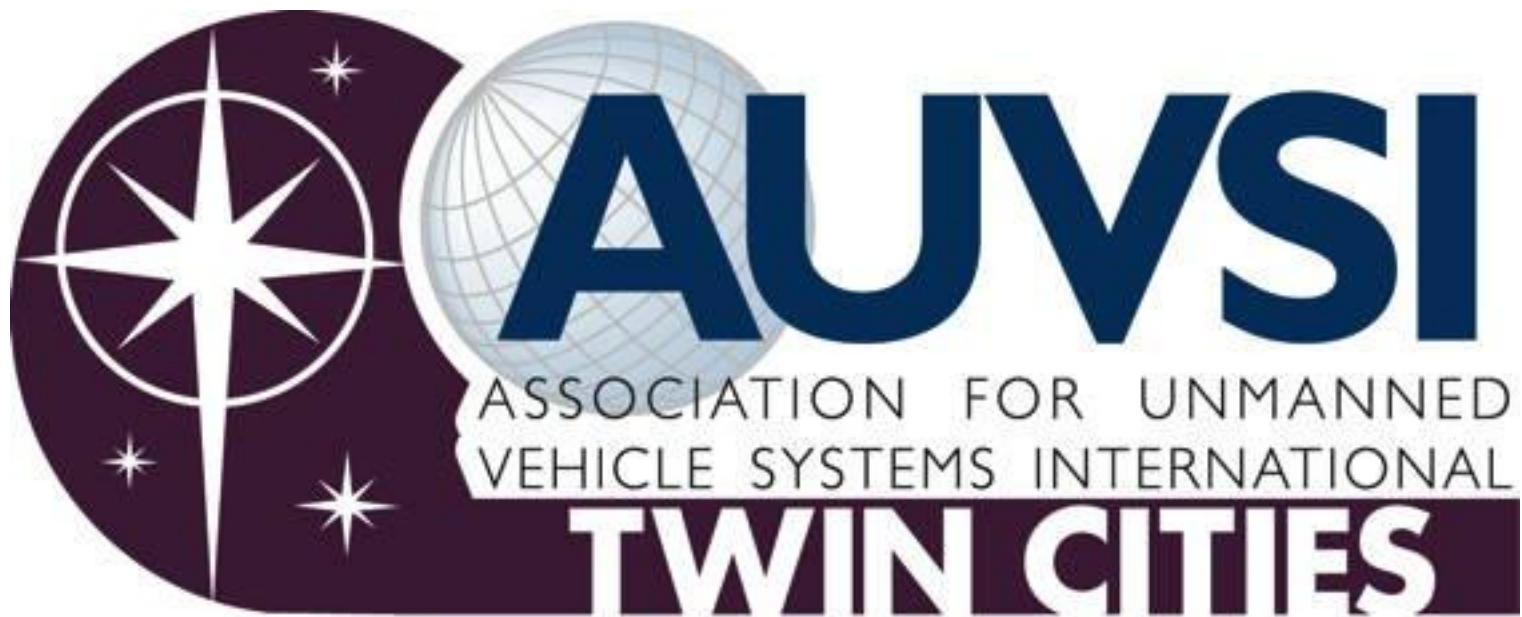
Local leaders



What's happening ...

robotics alley™

What's happening ...



Going forward

